



Master Index—Volumes 81-90

(For the sake of simplicity and uniformity, all names beginning with articles or prepositions are listed as if written as single words.)

- Adcock, J., see Charniak, E. 85 (1996) 45- 57
- Ahuja, N., see Das, S. 83 (1996) 241-266
- Almuallim, H.
An efficient algorithm for optimal pruning of decision trees 83 (1996) 347-362
- Ash, D. and B. Hayes-Roth
Using action-based hierarchies for real-time diagnosis 88 (1996) 317-347
- Auton, L.D., see Crawford, J.M. 81 (1996) 31- 57
- Baader, F., M. Buchheit and B. Hollunder
Cardinality restrictions on concepts 88 (1996) 195-213
- Bacchus, F., A.J. Grove, J.Y. Halpern and D. Koller
From statistical knowledge bases to degrees of belief 87 (1996) 75-143
- Bagchi, A., see Sen A.K. 86 (1996) 43- 73
- Balcázar, J.L.
The complexity of searching implicit graphs (Research Note) 86 (1996) 171-188
- Basili, R., M.T. Pazienza and P. Velardi
An empirical symbolic approach to natural language processing 85 (1996) 59- 99
- Baumgartner, P., U. Furbach and F. Stolzenburg
Computing answers with model elimination 90 (1997) 135-176
- Becker, A. and D. Geiger
Optimization of Pearl's method of conditioning and greedy-like approximation algorithms for the vertex feedback set problem 83 (1996) 167-188
- Ben-Eliah, R. and R. Dechter
Default reasoning using classical logic 84 (1996) 113-150
- Bennett, S.W., see DeJong, G.F. 89 (1997) 173-217
- Berliner, H.J. and C. McConnell
B* probability based search 86 (1996) 97-156

- Blum, A.L. and M.L. Furst
Fast planning through planning graph analysis 90 (1997) 281–300
- Borgida, A.
On the relative expressiveness of description logics and predicate logics (Research Note) 82 (1996) 353–367
- Boutilier, C.
Abduction to plausible causes: an event-based model of belief update 83 (1996) 143–166
- Boutilier, C., see Dearden, R. 89 (1997) 219–283
- Brooks, R.R., S.S. Iyengar and J. Chen
Automatic correlation and calibration of noisy sensor readings using elite genetic algorithms 84 (1996) 339–354
- Buchheit, M., see Baader, F. 88 (1996) 195–213
- Bundy, A., F. Giunchiglia, R. Sebastiani and T. Walsh
Calculating criticalities 88 (1996) 39–67
- Bylander, T.
A probabilistic analysis of propositional STRIPS planning 81 (1996) 241–271
- Cadoli, M., F.M. Donini and M. Schaerf
Is intractability of nonmonotonic reasoning a real drawback? 88 (1996) 215–251
- Carroll, G., see Charniak, E. 85 (1996) 45–57
- Cassandra, A., see Charniak, E. 85 (1996) 45–57
- Chakrabarti, P.P., see Dasgupta, P. 82 (1996) 237–257
- Charniak, E., G. Carroll, J. Adcock, A. Cassandra, Y. Gotoh, J. Katz, M. Littman and J. McCann
Taggers for parsers 85 (1996) 45–57
- Chella, A., M. Frixione and S. Gaglio
A cognitive architecture for artificial vision 89 (1997) 73–111
- Chen, J., see Brooks, R.R. 84 (1996) 339–354
- Chickering, D.M., see Korf, R.E. 84 (1996) 299–337
- Clearwater, S.H. and T. Hogg
Problem structure heuristics and scaling behavior for genetic algorithms 81 (1996) 327–347
- Cohen, P. and B. Porter
Editorial 85 (1996) 1–2
- Cooper, M.C.
Fundamental properties of neighbourhood substitution in constraint satisfaction problems 90 (1997) 1–24
- Cooper, R., J. Fox, J. Farringdon and T. Shallice
A systematic methodology for cognitive modelling 85 (1996) 3–44
- Crawford, J.M. and L.D. Auton
Experimental results on the crossover point in random 3-SAT 81 (1996) 31–57
- Crawford, J.M., see Schrag, R. 81 (1996) 199–222

- Darwiche, A. and J. Pearl
On the logic of iterated belief revision 89 (1997) 1–29
- Das, S. and N. Ahuja
Active surface estimation: integrating coarse-to-fine image acquisition and estimation from multiple cues 83 (1996) 241–266
- Dasgupta, P., P.P. Chakrabarti and S.C. DeSarkar
Searching game trees under a partial order 82 (1996) 237–257
- Dearden, R. and C. Boutilier
Abstraction and approximate decision-theoretic planning 89 (1997) 219–283
- De Bruin, A., see Plaat, A. 87 (1996) 255–293
- Dechter, A., see Dechter, R. 82 (1996) 1–20
- Dechter, R. and A. Dechter
Structure-driven algorithms for truth maintenance 82 (1996) 1–20
- Dechter, R., see Ben-Eliyahu, R. 84 (1996) 113–150
- Dechter, R., see Meiri, I. 86 (1996) 245–267
- DeJong, G.F. and S.W. Bennett
Permissive planning: extending classical planning to uncertain task domains 89 (1997) 173–217
- DeJong, G.F., see Gratch, J. 88 (1996) 101–142
- Del Favero, B., see Pradhan, M. 85 (1996) 363–397
- Delgrande, J.P. and T.H. Schaub
Compiling specificity into approaches to nonmonotonic reasoning 90 (1997) 301–348
- DeSarkar, S.C., see Dasgupta, P. 82 (1996) 237–257
- Devanbu, P.T. and D.J. Litman
Taxonomic plan reasoning 84 (1996) 1–35
- Dietterich, T.G., R.H. Lathrop and T. Lozano-Pérez
Solving the multiple instance problem with axis-parallel rectangles 89 (1997) 31–71
- F.J. Díez
Local conditioning in Bayesian networks 87 (1996) 1–20
- Donini, F.M., see Cadoli, M. 88 (1996) 215–251
- Dyer, M.E., see Smith, B.M. 81 (1996) 155–181
- Dzuber, J., see Whitley, D. 85 (1996) 245–276
- T. Eiter, G. Gottlob and N. Leone
Semantics and complexity of abduction from default theories 90 (1997) 177–223
- Elkan, C.P., see Segre, A.M. 85 (1996) 301–319
- Ephrati, E. and J.S. Rosenschein
Deriving consensus in multiagent systems 87 (1996) 21–74
- Etzioni, O., K. Golden and D.S. Weld
Sound and efficient closed-world reasoning for planning 89 (1997) 113–148
- Farrington, J., see Cooper, R. 85 (1996) 3–44

- Fink, E. and Q. Yang
Automatically selecting and using primary effects in planning: theory and experiments **89** (1997) 285–315
- Fox, J., see Cooper, R. **85** (1996) 3–44
- Fox, M.S., see Sadeh, N. **86** (1996) 1–41
- Freeman, J.W.
Hard random 3-SAT problems and the Davis–Putnam procedure **81** (1996) 183–198
- Freksa, C.
Erratum to: “Temporal reasoning based on semi-intervals” **87** (1996) 387
- Frixione, M., see Chella, A. **89** (1997) 73–111
- Furbach, U., see Baumgartner, P. **90** (1997) 135–176
- Furst, M.L., see Blum, A.L. **90** (1997) 281–300
- Gaglio, M., see Chella, A. **89** (1997) 73–111
- Geiger, D. and D. Heckerman
Knowledge representation and inference in similarity networks and Bayesian multinets **82** (1996) 45–74
- Geiger, D., see Becker, A. **83** (1996) 167–188
- Gent, I.P. and T. Walsh
The satisfiability constraint gap **81** (1996) 59–80
- Gent, I.P. and T. Walsh
The TSP phase transition (Research Note) **88** (1996) 349–358
- Gillies, D.F., see Kwoh, C.-K. **88** (1996) 1–38
- Giunchiglia, F., see Bundy, A. **88** (1996) 39–67
- Golden, K., see Etzioni, O. **89** (1997) 113–148
- Golding, A.R. and P.S. Rosenbloom
Improving accuracy by combining rule-based and case-based reasoning **87** (1996) 215–254
- Goldszmidt, M. and J. Pearl
Qualitative probabilities for default reasoning, belief revision, and causal modeling **84** (1996) 57–112
- Gomatam, J., see Reynolds, D. **82** (1996) 303–330
- Gomatam, J., see Reynolds, D. **86** (1996) 375–390
- Gordon, G.J., see Segre, A.M. **85** (1996) 301–319
- Gotoh, Y., see Charniak, E. **85** (1996) 45–57
- Gottlob, G., see Eiter, T. **90** (1997) 177–223
- Gratch, J. and G.F. DeJong
A statistical approach to adaptive problem solving **88** (1996) 101–142
- Greiner, R.
PALO: a probabilistic hill-climbing algorithm **84** (1996) 177–208
- Greiner, R. and P. Orponen
Probably approximately optimal satisficing strategies **82** (1996) 21–44
- Grosz, B.J. and S. Kraus
Collaborative plans for complex group action **86** (1996) 269–357

- Grove, A.J., see Bacchus, F. 87 (1996) 75–143
- Halpern, J.Y., see Bacchus, F. 87 (1996) 75–143
- Hansson, S.O.
 Knowledge-level analysis of belief base operations 82 (1996) 215–235
- Hansson, S.O.
 A test battery for rational database updating (Research Note) 82 (1996) 341–352
- Hayes-Roth, B., see Ash, D. 88 (1996) 317–347
- Heckerman, D., see Geiger, D. 82 (1996) 45–74
- Henrion, M., see Pradhan, M. 85 (1996) 363–397
- Hickey, R.J.
 Noise modelling and evaluating learning from examples 82 (1996) 157–179
- Hirsch, R.
 Relation algebras of intervals 83 (1996) 267–295
- Hogg, T.
 Refining the phase transition in combinatorial search 81 (1996) 127–154
- Hogg, T., B.A. Huberman and C.P. Williams
 Phase transitions and the search problem (Editorial) 81 (1996) 1–15
- Hogg, T., see Clearwater, S.H. 81 (1996) 327–347
- Hollunder, B., see Baader, F. 88 (1996) 195–213
- Holte, R., T. Mkadmi, R.M. Zimmer and A.J. MacDonald
 Speeding up problem solving by abstraction: a graph oriented approach 85 (1996) 321–361
- Huang, K., see Pradhan, M. 85 (1996) 363–397
- Huang, Z., M. Masuch and L. Pólos
 ALX, an action logic for agents with bounded rationality 82 (1996) 75–127
- Hubermann, B.A., see Hogg, T. 81 (1996) 1–15
- Iwanuma, K. and K. Oota
 An extension of pointwise circumscription (Research Note) 86 (1996) 391–402
- Iyengar, S.S., see Brooks, R.R. 84 (1996) 339–354
- Joskowicz, L., see Nayak, P.P. 83 (1996) 193–227
- Kambhampati, S., S. Katukam and Y. Qu
 Failure driven dynamic search control for partial order planners: an explanation based approach 88 (1996) 253–315
- Kambhampati, S. and D.S. Nau
 On the nature and role of modal truth criteria in planning 82 (1996) 129–155
- Katukam, S., see Kambhampati, S. 88 (1996) 253–315
- Khardon, R. and D. Roth
 Reasoning with models 87 (1996) 187–213
- Katz, J., see Charniak, E. 85 (1996) 45–57
- Kirkpatrick, S., see Selman, B. 81 (1996) 273–295
- King, R.D., see Srinivasan, A. 85 (1996) 277–299

- Kleiter, G.D.
 Propagating imprecise probabilities in Bayesian networks **88** (1996) 143–161
- Koehler, J.
 Planning from second principles **87** (1996) 145–186
- Koller, D., see Bacchus, F. **87** (1996) 75–143
- Kondrak, G. and P. van Beek
 A theoretical evaluation of selected backtracking algorithms **89** (1997) 365–387
- Korf, R.E. and D.M. Chickering
 Best-first minimax search **84** (1996) 299–337
- Korf, R.E., see Zhang, W. **81** (1996) 223–239
- Kraus, S.
 An overview of incentive contracting **83** (1996) 297–346
- Kraus, S., see Grosz, B.J. **86** (1996) 269–357
- Kuru, S., see Say, A.C.C. **83** (1996) 75–141
- Kwoh, C.-K. and D.F. Gillies
 Using hidden nodes in Bayesian networks **88** (1996) 1–38
- Lakemeyer, G.
 Limited reasoning in first-order knowledge bases with full introspection **84** (1996) 209–255
- Langrana, N., see Steinberg, L. **84** (1996) 37–56
- Lathrop, R.H., see Dietterich, T.G. **89** (1997) 31–71
- Leone, N., see Eiter, T. **90** (1997) 177–223
- Levesque, H.J., see Mitchell, D.G. **81** (1996) 111–125
- Levesque, H.J., see Selman, B. **81** (1996) 17–29
- Levesque, H.J., see Selman, B. **82** (1996) 259–272
- Liau, C.-J. and B.I.-P. Lin
 Possibilistic reasoning—a mini-survey and uniform semantics **88** (1996) 163–193
- Lin, B.I.-P., see Liau, C.-J. **88** (1996) 163–193
- Lin, J.
 Integration of weighted knowledge bases **83** (1996) 363–378
- Lin, J.
 A semantics for reasoning consistently in the presence of inconsistency **86** (1996) 75–95
- Litman, D.J., see Devanbu, P.T. **84** (1996) 1–35
- Littman, M., see Charniak, E. **85** (1996) 45–57
- Lobo, J. and C. Uzcátegui
 Abductive consequence relations **89** (1997) 149–171
- Lozano-Pérez, T., see Dietterich, T.G. **89** (1997) 31–71
- MacDonald, A.J., see Holte, R. **85** (1996) 321–361
- Masuch, M., see Huang, Z. **82** (1996) 75–127
- Mathias, K., see Whitley, D. **85** (1996) 245–276
- McCann, J., see Charniak, E. **85** (1996) 45–57

- McConnell, C., see Berliner, H.J. 86 (1996) 97–156
- McKeown, K., see Robin, J. 85 (1996) 135–179
- Meiri, I.
Combining qualitative and quantitative constraints in temporal reasoning 87 (1996) 343–385
- Meiri, I., R. Dechter and J. Pearl
Uncovering trees in constraint networks 86 (1996) 245–267
- Mitchell, D.G. and H.J. Levesque
Some pitfalls for experimenters with random SAT 81 (1996) 111–125
- Mitchell, D.G., see Selman, B. 81 (1996) 17–29
- Mkadmi, T., see Holte, R. 85 (1996) 321–361
- Moses, Y. and M. Tennenholtz
Off-line reasoning for on-line efficiency: knowledge bases 83 (1996) 229–239
- Muggleton, S.H., see Srinivasan, A. 85 (1996) 277–299
- Nau, D.S., see Kambhampati, S. 82 (1996) 129–155
- Nayak, P.P. and L. Joskowicz
Efficient compositional modeling for generating causal explanations 83 (1996) 193–227
- Nilsson, N.J.
Book Review of *Artificial Intelligence: A Modern Approach* (Stuart Russell and Peter Norvig) 82 (1996) 369–380
- Oota, K., see Iwanuma, K. 86 (1996) 391–402
- Orponen, P., see Greiner, P. 82 (1996) 21–44
- Pazienza, M.T., see Basili, R. 85 (1996) 59–99
- Pearl, J., see Darwiche, A. 89 (1997) 1–29
- Pearl, J., see Goldszmidt, M. 84 (1996) 57–112
- Pearl, J., see Meiri, I. 86 (1996) 245–267
- Pemberton, J.C. and W. Zhang
Epsilon-transformation: exploiting phase transitions to solve combinatorial optimization problems 81 (1996) 297–325
- Pijls, W., see Plaat, A. 87 (1996) 255–293
- Plaat, A., J. Schaeffer, W. Pijls and A. de Bruin
Best-first fixed-depth minimax algorithms 87 (1996) 255–293
- Pólos, L., see Huang, Z. 82 (1996) 75–127
- Poole, D.
Probabilistic conflicts in a search algorithm for estimating posterior probabilities in Bayesian networks 88 (1996) 69–100
- Porter, B., see Cohen, P. 85 (1996) 1–2
- Pradhan, M., M. Henrion, G. Provan, B. del Favero and K. Huang
The sensitivity of belief networks to imprecise probabilities: an experimental investigation 85 (1996) 363–397

- Prosser, P.
 An empirical study of phase transitions in binary constraint satisfaction problems 81 (1996) 81-109
- Provan, G., see Pradhan, M. 85 (1996) 363-397
- Qu, Y., see Kambhampati, S. 88 (1996) 253-315
- Ram, A. and J.C. Santamaría
 Continuous case-based reasoning 90 (1997) 25- 77
- Rana, S., see Whitley, D. 85 (1996) 245-276
- Reeke Jr, G.N.
 Book Review of *The Computational Brain* (Patricia S. Churchland and Terrence J. Sejnowski) 82 (1996) 381-391
- Reichgelt, H., see Vila, L. 83 (1996) 59- 74
- Reynolds, D. and J. Gomatam
 Stochastic modelling of Genetic Algorithms 82 (1996) 303-330
- Reynolds, D. and J. Gomatam
 Similarities and distinctions in sampling strategies for Genetic Algorithms (Research Note) 86 (1996) 375-390
- Riloff, E.
 An empirical study of automated dictionary construction for information extraction in three domains 85 (1996) 101-134
- Robin, J. and K. McKeown
 Empirically designing and evaluating a new revision-based model for summary generation 85 (1996) 135-179
- Rosenbloom, P.S., see Golding, A.R. 87 (1996) 215-254
- Rosenschein, J.S., see Ephrati, E. 87 (1996) 21- 74
- Rosenschein, J.S., see Zlotkin, G. 84 (1996) 151-176
- Rosenschein, J.S., see Zlotkin, G. 86 (1996) 195-244
- Roth, D.
 On the hardness of approximate reasoning 82 (1996) 273-302
- Roth, D., see Khardon, R. 87 (1996) 187-213
- Russell, S., see Zilberstein, S. 82 (1996) 181-213
- Rymon, R.
 Goal-directed diagnosis—a diagnostic reasoning framework for exploratory-corrective domains 84 (1996) 257-297
- Sadeh, N. and M.S. Fox
 Variable and value ordering heuristics for the job shop scheduling constraint satisfaction problem 86 (1996) 1- 41
- Santamaría, J.C., see Ram, A. 90 (1997) 25- 77
- Santos, E.S., see Santos Jr, E. 86 (1996) 157-170
- Santos Jr, E. and E.S. Santos
 Polynomial solvability of cost-based abduction (Research Note) 86 (1996) 157-170

- Say, A.C.C. and S. Kuru
 Qualitative system identification: deriving structure from behavior 83 (1996) 75–141
- Schaeffer, W., see Plaat, A. 87 (1996) 255–293
- Schaerf, M., see Cadoli, M. 88 (1996) 215–251
- Schaub, T.H., see Delgrande, J.P. 90 (1997) 301–348
- Schrag, R. and J.M. Crawford
 Implicates and prime implicates in Random 3-SAT 81 (1996) 199–222
- Sebastiani, R., see Bundy, A. 88 (1996) 39– 67
- Segre, A.M., G.J. Gordon and C.P. Elkan
 Exploratory analysis of speedup learning data using expectation maximization 85 (1996) 301–319
- Selman, B. and H.J. Levesque
 Support set selection for abductive and default reasoning 82 (1996) 259–272
- Selman, B. and S. Kirkpatrick
 Critical behavior in the computational cost of satisfiability testing 81 (1996) 273–295
- Selman, B., D.G. Mitchell and H.J. Levesque
 Generating hard satisfiability problems 81 (1996) 17– 29
- Sen, A.K. and A. Bagchi
 Graph search methods for non-order-preserving evaluation functions: applications to job sequencing problems 86 (1996) 43– 73
- Shahar, Y.
 A framework for knowledge-based temporal abstraction 90 (1997) 79–133
- Shallice, T., see Cooper, R. 85 (1996) 3– 44
- Simonet, G.
 On Sandewall's paper: Nonmonotonic inference rules for multiple inheritance with exceptions (Research Note) 86 (1996) 359–374
- Smith, B.M. and M.E. Dyer
 Locating the phase transition in binary constraint satisfaction problems 81 (1996) 155–181
- Srinivasan, A., S.H. Muggleton, M.J.E. Sternberg and R.D. King
 Theories for mutagenicity: a study in first-order and feature-based induction 85 (1996) 277–299
- Steinberg, L. and N. Langrana
 EVEXED and MEET for mechanical design: testing structural decomposition and constraint propagation 84 (1996) 37– 56
- Sternberg, M.J.E., see Srinivasan, A. 85 (1996) 277–299
- Stolzenburg, F., see Baumgartner, P. 90 (1997) 135–176
- Tennenholtz, M., see Moses, Y. 83 (1996) 229–239
- Thielscher, M.
 Ramification and causality 89 (1997) 317–364
- Uzcátegui, C., see Lobo, J. 89 (1997) 149–171

Valdés-Pérez, R.E.

- A new theorem in particle physics enabled by machine discovery (Research Note) **82** (1996) 331–339

Van Beek, P., see Kondrak, G. **89** (1997) 365–387

Velardi, P., see Basili, R. **85** (1996) 59–99

Vila, L. and H. Reichgelt

- The token reification approach to temporal reasoning **83** (1996) 59–74

Vreeswijk, G.A.W.

- Abstract argumentation systems **90** (1997) 225–279

Walker, M.A.

- The effect of resource limits and task complexity on collaborative planning in dialogue **85** (1996) 181–243

Walley, P.

- Measures of uncertainty in expert systems **83** (1996) 1–58

Walsh, T., see Bundy, A. **88** (1996) 39–67

Walsh, T., see Gent, I.P. **81** (1996) 59–80

Walsh, T., see Gent, I.P. **88** (1996) 349–358

Weld, D.S., see Etzioni, O. **89** (1997) 113–148

Whitney, D., S. Rana, J. Dzuber and K. Mathias

- Evaluating evolutionary algorithms **85** (1996) 245–276

Williams, C.P., see Hogg, T. **81** (1996) 1–15

Xiang, Y.

- A probabilistic framework for cooperative multi-agent distributed interpretation and optimization of communication **87** (1996) 295–342

Yang, Q., see Fink, E. **89** (1997) 285–315

Zhang, N.L.

- Irrelevance and parameter learning in Bayesian networks (Research Note) **88** (1996) 359–373

Zhang, W. and R.E. Korf

- A study of complexity transitions on the asymmetric traveling salesman problem **81** (1996) 223–239

Zhang, W., see Pemberton, J.C. **81** (1996) 297–325

Zilberstein, S. and S. Russell

- Optimal composition of real-time systems **82** (1996) 181–213

Zimmer, R.M., see Holte, R. **85** (1996) 321–361

Zlotkin, G. and J.S. Rosenschein

- Compromise in negotiation: exploiting worth functions over states **84** (1996) 151–176

Zlotkin, G. and J.S. Rosenschein

- Mechanism design for automated negotiation, and its application to task oriented domains **86** (1996) 195–244

